Table CT6. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2016, Hawaii

Year	Coal	Natural Gas [a]	Petroleum						Hydro-electric Power [e,f]	Biomass		Geo-thermal [f]	Solar [f,i]	Retail Electricity Sales	Net Energy [f,j]	Electrical System Energy Losses [k]	Total [f,j]
			Distillate Fuel Oil	HGL [b]	Motor Gasoline [c]	Residual Fuel Oil	Other [d]	Total		Wood and Waste [f,g]	Losses and Co-products [h]						
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels						Million kWh				Million kWh				
1960	0	0	554	43	83	1,038	649	2,367	0	– –	– –	– –	NA	465	– –	– –	– –
1965	0	0	635	82	76	1,712	992	3,497	83	– –	– –	– –	NA	1,096	– –	– –	– –
1970	0	0	701	386	49	1,671	1,066	3,874	86	– –	– –	– –	NA	1,720	– –	– –	– –
1975	0	0	603	472	53	1,346	1,174	3,648	71	– –	– –	– –	NA	2,538	– –	– –	– –
1980	0	0	1,369	1,041	49	1,491	1,186	5,135	67	– –	– –	– –	NA	3,028	– –	– –	– –
1985	46	0	458	9	104	1,344	1,083	2,997	67	– –	– –	– –	NA	3,143	– –	– –	– –
1990	28	0	725	15	133	1,740	2,617	5,231	57	– –	– –	– –	(s)	3,734	– –	– –	– –
1995	192	0	548	1,207	245	1,024	2,618	5,643	64	– –	– –	– –	(s)	3,803	– –	– –	– –
1996	169	0	475	1,191	259	957	2,998	5,880	65	– –	– –	– –	(s)	3,884	– –	– –	– –
1997	166	(s)	623	6	242	845	2,956	4,672	67	– –	– –	– –	(s)	3,856	– –	– –	– –
1998	146	(s)	584	181	266	305	2,428	3,765	75	– –	– –	– –	(s)	3,787	– –	– –	– –
1999	117	(s)	427	(s)	155	332	2,464	3,380	70	– –	– –	– –	(s)	3,748	– –	– –	– –
2000	110	1	473	49	160	438	2,566	3,685	60	– –	– –	– –	(s)	3,834	– –	– –	– –
2001	113	1	473	61	122	8	2,849	3,513	50	– –	– –	– –	(s)	3,790	– –	– –	– –
2002	50	(s)	459	247	145	446	2,481	3,779	60	– –	– –	– –	(s)	3,770	– –	– –	– –
2003	52	(s)	439	94	137	364	2,699	3,733	50	– –	– –	– –	(s)	3,846	– –	– –	– –
2004	53	(s)	407	67	169	395	2,667	3,704	37	– –	– –	– –	(s)	3,937	– –	– –	– –
2005	59	(s)	512	14	133	781	2,859	4,298	34	– –	– –	– –	(s)	3,912	– –	– –	– –
2006	59	(s)	456	41	141	811	2,743	4,194	38	– –	– –	– –	0	3,896	– –	– –	– –
2007	72	1	451	58	244	428	2,663	3,844	38	– –	– –	– –	0	3,864	– –	– –	– –
2008	99	(s)	347	5	247	434	2,335	3,367	39	– –	– –	– –	0	3,804	– –	– –	– –
2009	88	(s)	404	32	234	466	2,995	4,131	35	– –	– –	– –	0	3,683	– –	– –	– –
2010	61	(s)	326	49	143	451	R 3,240	R 4,208	42	– –	– –	– –	0	3,672	– –	– –	– –
2011	58	(s)	342	40	147	454	R 3,242	R 4,225	49	– –	– –	– –	0	3,665	– –	– –	– –
2012	50	(s)	376	0	140	326	R 3,052	R 3,894	59	– –	– –	– –	0	3,662	– –	– –	– –
2013	61	(s)	325	0	138	283	R 3,241	R 3,987	44	– –	– –	– –	0	3,623	– –	– –	– –
2014	61	(s)	392	4	171	257	R 3,009	R 3,833	52	– –	– –	– –	0	3,690	– –	– –	– –
2015	50	(s)	321	7	284	298	R 3,008	R 3,919	59	– –	– –	– –	(s)	3,696	– –	– –	– –
2016	12	1	163	9	281	408	2,833	3,694	38	– –	– –	– –	2	3,722	– –	– –	– –
			Trillion Btu														
1960	0.0	0.0	3.2	0.2	0.4	6.5	3.9	14.3	0.0	0.0	NA	NA	NA	1.6	15.8	4.8	20.6
1965	0.0	0.0	3.7	0.3	0.4	10.8	6.1	21.3	0.9	0.2	NA	NA	NA	3.7	26.1	8.6	34.7
1970	0.0	0.0	4.1	1.4	0.3	10.5	6.6	22.9	0.9	0.2	NA	NA	NA	5.9	29.9	13.8	43.7
1975	0.0	0.0	3.5	1.7	0.3	8.5	7.3	21.3	0.7	0.3	NA	NA	NA	8.7	31.0	19.4	50.4
1980	0.0	0.0	8.0	3.8	0.3	9.4	7.3	28.7	0.7	11.9	NA	NA	NA	10.3	51.6	23.0	74.7
1985	1.1	0.0	2.7	(s)	0.5	8.4	6.8	18.5	0.7	14.0	0.0	NA	NA	10.7	45.0	22.3	67.3
1990	0.7	0.0	4.2	0.1	0.7	10.9	16.0	31.9	0.6	18.2	0.0	(s)	(s)	12.7	64.1	34.9	98.9
1995	4.1	0.0	3.2	4.3	1.3	6.4	16.1	31.3	0.7	13.3	0.0	(s)	(s)	13.0	62.3	30.7	93.0
1996	3.6	0.0	2.8	4.2	1.3	6.0	18.3	32.6	0.7	14.1	0.0	(s)	(s)	13.3	64.3	31.2	95.6
1997	3.7	0.4	3.6	(s)	1.3	5.3	18.0	28.2	0.7	11.8	0.0	(s)	(s)	13.2	57.6	31.0	88.7
1998	3.4	0.4	3.4	0.6	1.4	1.9	14.9	22.2	0.8	11.1	0.0	(s)	(s)	12.9	50.4	30.3	80.7
1999	2.7	0.5	2.5	(s)	0.8	2.1	15.1	20.5	0.7	11.6	0.0	(s)	(s)	12.8	48.2	29.8	78.0
2000	2.1	0.6	2.8	0.2	0.8	2.8	15.9	22.4	0.6	9.9	0.0	(s)	(s)	13.1	48.1	29.8	78.0
2001	2.0	0.6	2.8	0.2	0.6	0.1	17.3	21.0	0.5	5.1	0.0	(s)	(s)	12.9	41.6	27.8	69.5
2002	0.7	0.5	2.7	0.9	0.8	2.8	15.0	22.1	0.6	5.1	0.0	(s)	(s)	12.9	41.3	29.4	70.8
2003	1.4	0.5	2.6	0.3	0.7	2.3	16.3	22.2	0.5	6.7	0.0	(s)	(s)	13.1	43.9	24.9	68.8
2004	1.3	0.5	2.4	0.2	0.9	2.5	16.2	22.2	0.4	6.8	0.0	(s)	(s)	13.4	44.0	24.9	68.9
2005	1.4	0.5	3.0	(s)	0.7	4.9	17.4	26.0	0.3	5.9	0.0	(s)	(s)	13.3	47.1	25.3	72.4
2006	1.6	0.5	2.6	0.1	0.7	5.1	16.5	25.2	0.4	5.8	0.0	(s)	0.0	13.3	46.3	25.3	71.6
2007	1.8	0.5	2.6	0.2	1.3	2.7	16.1	22.8	0.4	5.4	0.0	(s)	0.0	13.2	43.7	25.4	69.0
2008	2.3	0.4	2.0	(s)	1.3	2.7	14.1	20.1	0.4	5.4	0.0	(s)	0.0	13.0	41.2	24.7	65.8
2009	2.0	0.4	2.3	0.1	1.2	2.9	18.5	25.1	0.3	5.2	0.0	(s)	0.0	12.6	45.2	23.9	69.1
2010	1.4	0.4	1.9	0.2	0.7	2.8	R 20.0	R 25.6	0.4	4.4	0.0	(s)	0.0	12.5	R 44.4	23.6	68.0
2011	1.3	0.4	2.0	0.2	0.7	2.9	R 20.0	R 25.7	0.5	3.7	0.0	(s)	0.0	12.5	R 43.7	23.9	R 67.5
2012	1.1	0.4	2.2	0.0	0.7	2.1	R 18.7	23.6	0.6	3.8	0.0	(s)	0.0	12.5	R 41.6	23.5	65.1
2013	1.4	0.4	1.9	0.0	0.7	1.8	20.0	R 24.4	0.4	4.0	0.0	(s)	0.0	12.4	R 42.6	22.8	R 65.4
2014	1.4	0.4	2.3	(s)	0.9	1.6	R 18.6	R 23.4	0.5	3.4	0.0	(s)	0.0	12.6	R 41.3	23.3	64.5
2015	1.1	0.4	1.9	(s)	1.4	1.9	R 18.6	R 23.8	0.5	3.2	0.0	(s)	(s)	12.6	41.2	23.0	R 64.2
2016	0.3	0.5	0.9	(s)	1.4	2.6	17.4	22.3	0.3	3.4	0.0	(s)	(s)	12.7	39.1	23.5	62.5

[a] Natural gas as it is consumed; includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.
[d] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.
[e] Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] Losses and co-products from the production of fuel ethanol.
[i] Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the residential sector.
[j] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by industrial utility-scale facilities. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.
[k] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

kWh = Kilowatthours. – – = Not applicable. NA = Not available.
Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.
Notes: Totals may not equal sum of components due to independent rounding. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. • The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.
Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.